

UNITED STATES DEPARTMENT OF AGRICULTURE
Rural Utilities Service
Washington, DC 20250-1500

November 29, 2001

TECHNICAL STANDARDS COMMITTEE "A" (TELECOMMUNICATIONS) MEETING
#742

Summary of Decisions

1. Fiber Optic Cable (Item "oc") - Corning Cable Systems

Committee A accepted Corning's "SOLO-ADSS" dry-filled, self-supporting, fiber optic cable design for listing on page 1.5.2 as follows:

oc - Fiber Optic Cable

RUS Standard Designation "CFO" (Filled) 7 CFR 1755.900

These manufacturers' cables shown by catalog designations comply with 7 CFR 1755.900

oc-c Self-Supporting Filled Fiber Optic Cables

RUS Standard Suffixes

Manufacturer

Cable Construction

	<u>I</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>P(2)</u>	<u>s</u> <u>m</u> Mode	
Corning Cable Systems ⁽⁵⁾	SST-Ribbon	SOLO-ADSS	SST-Ribbon	-	(X)P-RUS	X -	
	ALTOS ^{TM(22)}	SOLO-ADSS ⁽²²⁾	ALTOS TM ⁽²¹⁾⁽²²⁾	-	-	(X)P-RUS	X
	SST	-	SST ⁽¹⁰⁾	-	(X)P-RUS	X -	

2. Fiber Optic Cable (Item "oc") – Belden

Committee A accepted Belden's dry-filled fiber optic cable design for listing on pages 1.5.3 and 1.5.5 as follows:

Page 1.5.3oc - Fiber Optic Cable

RUS Standard Designations "BFO", "CO", and "UO" (Filled) 7 CFR 1755.900

These manufacturers' cables shown by catalog designations comply with 7 CFR 1755.900

oc-d Dry Filled Multiple Loose Tube Fiber Core Construction^{(3) (22)}RUS Standard SuffixesManufacturerCable Construction

	<u>E(1)</u>	<u>F(1)</u>	<u>G</u>	<u>H</u>	<u>P(2)</u>	<u>Mode</u> <u>s</u> <u>m</u>
Belden Wire & Cable ⁽⁶⁾	-	-	-	__ ⁽⁸⁾ __ ⁽²⁹⁾ FM	-	X -

Page 1.5.5

⁽⁸⁾Replace blank with the letter "A" or "L" to indicate a double or single jacket.

3. Precast Concrete Manholes (Item "hm") - Armorcast Products Company

Committee A accepted Armorcast's 4'x4'x4' polymer concrete manhole assembly for listing on pages 2.7 and 2.7.3 as follows:

Page 2.7ManufacturerBase SizeCatalog Numberhm - Precast Concrete Manholes⁽¹⁾

Armorcast	48" x 48" x 48"	A6000514HTAPC ⁽⁴⁾
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Page. 2.7.3

- Notes:** ⁽¹⁾Consult manufacturer for ordering procedure concerning depth of the hole (Headroom), type of manhole (A, J, L, T), and extension sections.
⁽²⁾Equipped with 27-inch frame and cover made by Dewery Brothers Foundry.
⁽³⁾This manhole comes with an option for a D and L Foundry A1381 cast iron cover with security bolts.
⁽⁴⁾This manhole comes with Alhambra Foundry Cover, drawing No. A-1133.

4. Shield Bonding Connectors (Item "gh") - Electric Motion Company

Committee A accepted Electric Motion's shield bonding connectors for listing. The recommendation included revision of Electric Motion's current listing on page 3.1 to appear as follows:

<u>Manufacturer</u>	<u>Catalog Number</u>			
	<u>gh - Shield Bonding Connectors</u> (Complies with PE-33)			
	<u>gh-a Copper Cable and Wire Connectors</u>			
	<u>Cable Connectors</u>		<u>Service Wire Connectors</u>	
	<u>Outside Cable Diameters</u>			
	<u>Less than 1.0 inch</u>	<u>1.0 to 1.5 inch</u>	<u>Greater than 1.5 inch</u>	
Electric Motion	EM2__ ⁽⁸⁾ BM ⁽⁹⁾ EM2__ ⁽⁸⁾ B1 ⁽¹⁰⁾	- EM2__ ⁽⁸⁾ B2 ⁽¹¹⁾	- EM2__ ⁽⁸⁾ B3 ⁽¹²⁾	- EM-3956__ ⁽¹⁾ ⁽⁵⁾
	<u>gh-b Armored Fiber Optic Cable Connectors</u>			
	<u>Outside Cable Diameters</u>			
	<u>Less than 0.75 inch</u>	<u>Greater than 0.75 inch</u>		
Electric Motion	EM2__ ⁽⁸⁾ BM ⁽⁹⁾ EM2__ ⁽⁸⁾ B1 ⁽¹⁰⁾	EM2__ ⁽⁸⁾ B2 ⁽¹¹⁾ EM2__ ⁽⁸⁾ B3 ⁽¹²⁾		

Notes: ⁽⁸⁾Replace blank with the number 0 to indicate one (1) stud or the letter B to indicate two (2) studs.

⁽⁹⁾For use with cables having outside diameters less than 0.5 inch.

⁽¹⁰⁾For use with cables having outside diameters equal to and greater than 0.5 inch but less than 0.8 inch.

⁽¹¹⁾For use with cables having outside diameters equal to and greater than 0.8 inch but less than 1.6 inches.

⁽¹²⁾For use with cables having outside diameters equal to and greater than 1.6 inches.

5. Wireless Local Loop Systems (Item "wl") - Innwave Wireless Systems

Committee A accepted Innwave's MultiGain Wireless system for listing on page 6.3 as follows:

<u>Manufacturer</u>	<u>Designation</u>	<u>RF Band</u>
	<u>wl - Wireless Local Loop Systems</u>	
Innwave	MultiGain Wireless ⁽¹⁾	2.4 GHz

⁽¹⁾Uses spread spectrum technology.

6. Stored Program Digital Switching Equipment (Item "pc") - Redcom Laboratories, Inc.

Committee A granted Redcom Laboratories Approval-to-Bid the MDX-I Version 6.0.

The documentation submitted shows that there are several new hardware and software features along with improvements and enhancements to existing features in Version 6.0. This release provides the Communications Assistance for Law Enforcement Act (CALEA) and Signaling System 7 functionality. It also includes an eight-line Basic Rate S-Interface circuit board and an Expanded Digital Announcer. The new features are in addition to those incorporated in MDX-I Version 5.0.

7. Stored Program Digital Switching Equipment (Item "pc") - Nortel Networks, Inc.

Committee A accepted Nortel's DMS-100 System Release LEC00015 for listing on page 6.4 as follows:

pc - Stored Program Digital Switching Equipment

<u>Manufacturer</u>	<u>Base</u>	<u>Accepted System Release⁽⁵⁾</u>	<u>Acceptance Classification⁽¹⁾</u>	<u>RST(s)</u>
Nortel Networks, Inc.	DMS-100 ⁽³⁾	LEC00015	A	RLCM (OPAC) RSC-S RSC Star Remote Hub

8. Lightwave Digital Transmission Systems (Item "It") - Marconi

Committee accepted Marconi's MAS and MCN7000 systems for listing on page 6.7 under Item "It" as follows:

It - Lightwave Digital Transmission Systems

It-b Synchronous Systems

<u>Manufacturer</u>	<u>Designation</u>	<u>Optical Bit Rate</u>	<u>Configurations</u>		
			<u>Pt-Pt</u>	<u>Add/Drop</u>	<u>Ring</u>
Marconi	MAS	OC-3	Y	Y	Y
		OC-12	Y	Y	Y
	MCN7000	OC-3	Y	Y	Y
		OC-12	Y	Y	Y
		OC-48	Y	Y	Y

Miscellaneous

- I. Committee A sent a September 27, 2001 letter acknowledging Corning's purchase of Siemens' share of Siecor Corporation. The letter also acknowledged revision of product listings appearing in the List of Materials under the name Siecor to reflect the name "Corning Cable Systems" as follows:

Page 3.3.1ManufacturerCatalog Numbergs - Bonding Connector Harnesses
(Stranded Type Wire)Buried Service Wire (Bare Metal Shields Only)gs-a - #14 AWG Insulated Harness WiresBonding at Station Protector (Network Interface Device)7" Length

Corning Cable Systems

GH-13⁽¹⁾

Notes: ⁽¹⁾Harnesses equipped with AMP's #329860 Termini-Foil^R connector at one end for attachment to the bare metal shield of the service wire.

Page 5.1.2ni - Station Protectors⁽⁷⁾Fuseless, Well Mount, Gas Tube

<u>Manufacturer</u>	<u>1-Pair</u>	<u>2-Pair</u>	<u>6-Pair</u>
Corning Cable Systems	500-LCGX/LCGX ⁽¹⁾ (4)	502A1-2LCGX/LCGX ⁽¹⁾ (4)	502A1-6LCGX/LCGX ⁽¹⁾ (4)(6)
	<u>4-Pair</u>	<u>6-Pair</u>	
Corning Cable Systems	502A1-4LCGX/LCGX ⁽¹⁾ (4)	502A1-6LCGX/LCGX ⁽¹⁾ (4)(6)	

Page 5.1.3ni - Station Protectors⁽⁷⁾Fuseless, Module, Gas Tube

	<u>25-Pair⁽⁶⁾</u>	<u>50-Pair⁽⁶⁾</u>	<u>100-Pair⁽⁶⁾</u>
Corning Cable Systems	C-552/7X ⁽¹⁾ (4) C-552/9X ⁽²⁾ (4)	C-550/7X ⁽¹⁾ (4) C-550/9X ⁽²⁾ (4)	C-551/7X ⁽¹⁾ (4) C-551/9X ⁽²⁾ (4)

Page 5.2**nm - Mainframe Protectors⁽¹⁾⁽⁷⁾****Manufacturer****Gas Tube****10-Pair****50-Pair****100-Pair**

Corning Cable Systems

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C-388/7A⁽²⁾⁽⁵⁾
C-388/9A⁽³⁾⁽⁵⁾**Solid-State⁽⁸⁾****100-Pair**

Corning Cable Systems

⁽⁹⁾/11A**Page 5.3****Manufacturer****Catalog Number****gg - Power Service Protectors**

Maximum Service Voltage: 125/250

Corning Cable Systems

CP 211

Page 5.4**nh - Gas Tube Arrester⁽¹⁾****Manufacturer****MDF Module****Station Module****Well Mount**

Corning Cable Systems

7A⁽²⁾⁽⁵⁾
9A⁽³⁾⁽⁵⁾7X⁽²⁾⁽⁵⁾
9X⁽³⁾⁽⁵⁾-
-**nh - Solid-State Arrester⁽⁷⁾****Manufacturer****MDF Module**

Corning Cable Systems

11A⁽⁸⁾⁽⁹⁾

Page 5.7**nid - Network Interface Devices**

Corning Cable Systems

NI - 2000 Series

Technical Acceptance**ni – Station Protectors⁽⁷⁾****Fuseless, Module, Gas Tube**

<u>Manufacturer</u>	<u>1-Pair</u>	<u>2-Pair</u>	<u>4-Pair</u>	<u>6-Pair</u>
Corning Cable Systems	SPD 356-XY/* SPD 356-VY/*	SPD 356-XY/* SPD 356-VY/*	SPD 356-XY/* SPD 356-VY/*	SPD 356-XY/* SPD 356-VY/*
	<u>25-Pair⁽⁶⁾</u>	<u>50-Pair⁽⁶⁾</u>	<u>100-Pair⁽⁶⁾</u>	
Corning Cable Systems	SPD 356-XY/* SPD 356-VY/*	SPD 356-XY/* SPD 356-VY/*	SPD 356-XY/* SPD 356-VY/*	

*Replace with Corning T44C350⁽²⁾⁽⁴⁾

II. The following manufacturers and product listings were removed from the List of Materials:

<u>Manufacturer</u>	<u>Type Conduit</u>	<u>Catalog Number</u>
<u>hc - Underground Conduit</u>		
Bay Plastics, Inc.	Plastic	Type B and Type C
Condux International, Inc.	Concrete Plastic	Condux Type EB and Type DB
Hercules	Flexible plastics	Corflo plastic conduit
Phone Ducs	Plastic	Multiple plastic conduit (4, 6, & 9 Way)
River City Plastics	Plastic	Type EB and Type DB
Quail Plastics	Plastic	Type EB and Type DB
Vassallo Industries	Plastic	Type B and Type C

<u>Manufacturer</u>	<u>Base Size</u>	<u>Catalog Number</u>
<u>hm - Precast Concrete Manholes⁽¹⁾</u>		
(Condux International TM)	12' x 6'	A4046-1
Winnebago Concrete Products	12' x 6'	J4046-3
Janesville Concrete Products	10' x 5'-6"	L4046-4
Chicago Pre-Cast Products	8'6" x 10'-2"	T4046-5
	8' to 11' x 4' to 6'	C4046-6
	5' x 8' x 6'-6"	A4046-13

<u>Manufacturer</u>	<u>Catalog Number</u>
<u>sd - Mobile Home Posts</u>	
Garrett Mfg. Co. ⁽²⁾⁽³⁾	GMHP-36 ⁽²⁾⁽³⁾ GUMP-36 ⁽²⁾⁽³⁾ IMP-36 ⁽⁴⁾
	GMHP-48 (3" x 6" plate) ⁽²⁾⁽³⁾ GUMP-48 (3" X 12" plate) ⁽²⁾⁽³⁾ IMP-48 (6" x 12" plate) ⁽⁴⁾

- III. At its previous meeting (#741), Committee A accepted Northwest Pipe & Tank's handholes for listing on pages 2.4 and 2.4.1 including the addition of Note (3). After the meeting, it was noted that we have already a note number 3 associated with this listing and that the current handhole listing category included two columns instead of three as reflected in OPB's recommendation. Subsequently, Committee A revised the Northwest Pipe Tank handhole listing in the List of Materials as follows:

Page 2.4**Manufacturer****Catalog Number****hh - Handholes**⁽¹⁾⁽²⁾**Handholes for Copper Systems**

Northwest Pipe & Tank, Inc.

#8-C124⁽⁴⁾ (4'10" x 3'4" x 2'6")**Page 2.4.1****Manufacturer****Catalog Number****hh - Handholes**⁽¹⁾⁽²⁾**Handholes for Fiber Optic Systems**

Northwest Pipe & Tank, Inc.

#8-C124⁽⁴⁾ (4'10" x 3'4" x 2'6")**Page 2.4.2**

Notes: ⁽¹⁾Not for use in areas subject to vehicular traffic unless otherwise noted.

⁽²⁾Consult the manufacturer for ordering procedures for handhole depth and lid/cover locking devices and load bearing capacity.

⁽³⁾Rated for use in areas subject to vehicular traffic.

⁽⁴⁾Light vehicular traffic only (H10).

- IV. The Committee sent an October 19, 2001 letter to Zhone Technologies acknowledging Zhone Technologies' acquisition of Nortel Networks' AccessNode product and transfer of the AccessNode product listing on page 6.5 to Zhone Technologies as follows:

Manufacturer**Type Designation****ep - Electronic Subscriber Line Concentrators**

Zhone Technologies

AccessNode⁽⁶⁾

Notes: ⁽⁶⁾This listing includes the AccessNode Express.

- V. Committee A sent a November 1, 2001 letter to Carlon Lamson & Sessions acknowledging Carlon's acquisition of Pyramid Industries, Inc. The November 1 letter also acknowledged the revision of pages 2.2 and 2.2.1 of the List of Materials to reflect consolidation of the current Carlon and Pyramid underground conduit listings as follows:

<u>Manufacturer</u>	<u>Type Conduit</u>	<u>Catalog Number</u>
<u>hc - Underground Conduit</u>		
Carlon/Pyramid D ⁽¹⁾	Plastic	Type EB, Type DB
	Plastic (Telephone Duct)	Type B ⁽¹⁾ , Type C ⁽¹⁾ , and Type
	Plastic Flexible plastic	Multi-Gard ⁽¹⁾ HDPE Conduit ⁽²⁾

Note: For fiber and plastic conduit, Type I, Type B or Type EB is for concrete encasement and Type II, Type C or Type DB may be directly buried. Schedule 40 is a high strength conduit that may be used for concrete encasement or direct burial. Type D is for exposed installation, as on bridges.

⁽¹⁾Carlon brand only.

⁽²⁾Pyramid brand only.

- VI. Committee A deleted the "SEK" designation from the listing for Aerial Service Wires (Item "nt") on page 1.4 of the List of Materials. This deletion resulted from the removal of the "SEK" construction unit from the 2001 issue of RUS Bulletin 1753F-503 (Form 515d). The BM50 construction unit has replaced the "SEK" unit.

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